

FOST CPU

PORTABLE PC

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FIG. 1 PRIOR ART

PORTABLE PC WITH MODEM

**Z** 

PUBLIC SWITCH TELEPHONE NETWORK

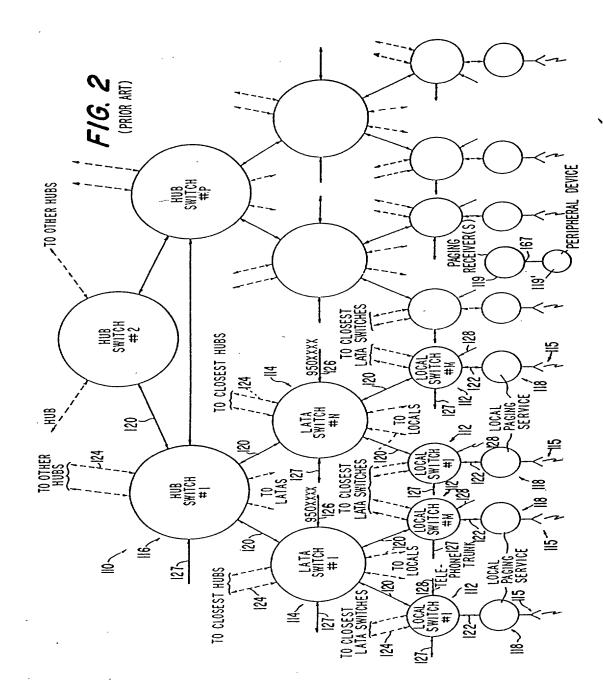
PABX

က ##

HOST CPU

PORTABLE





CONTROCTATION

FIG. 3

(PRIOR ART)

MAP LOCAL **SWITCH MEMORY** 156 158 160 154 LOCAL LATA SUBSCRIBER FILES N (9999) FREQUENCY FILES N (1000) **BUFFERS BUFFERS** 184 INBOUND 162-FILE 1 (1,000) ① FILE#1 ( 0,000) 164 **PAGES** 0-15 FRE-INBOUND ② TELEPHONE # 166 0 LATA SUBSCRIBER AND PAGER ID CODE QUENCIES USED 168 **BUFFER** IN REGION COR-4 SERVICE OPTIONS ١ **1** NO SERVICE RESPONDING TO (b) LOCAL FILE # 180 2 © REGIONAL **(1)** NATIONAL 3 @ ABOVE WITH REPEAT PAGING 4 1 DATA SERVICE **(9)** EXTERNAL DATA 170-186 **OUTBOUND** 5 SUBSCRIBER NAME/ACCOUNT 172 5 LATA 6 ACCOUNT # 174 **BUFFER** PAGE COUNT (L,R,N) 176-8 # OF DATA CHARACTERS SENT
9 DESTINATIONS AREA CODE(S) 6 178~ 182 7 8 FILE # N (999) FILE # N (9999) 9 ID CODE BUFFERS

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## FIG. 4

		(PRIOR A Lata Switch Mi 190	RT) EMORY MAP 192	194	196
188	HUB BUFFERS	LOCAL BUFFERS	L ATA 1D MEMORY	OPTIONAL	OPTIONAL
198 ~	OUTBOUND PAGES	INBOUND PAGES 202  OUTBOUND PAGES LOCAL # I	ALL PAGER ID CODES OF LOCAL#1	ALL CALL BUFFER PAGES FROM HUR	ALL CALL BUFFER   PAGES   FROM   LOCAL
200 —	INBOUND PAGES	204 	ALL PAGER ID CODES OF LOCAL # N (26)	HUB SWITCH	SWITCHES

## FIG. 5 (PRIOR ART)

MEMORY MAP SWITCH HUB

		DOD SHILDII	PILHOW CIVI	•
â	206	208	210	212
	HUB BUFFERS	LATA BUFFERS	LATA CODE TABLES N (100)	HUB ROUTING CODES N (1000)
	INBOUND HUB# 1	INBOUND LATA#1	LATA	ROUTING CODE 1,2,3,4,5,6 (312)
		218	CODE 222 # 1	
(		, 		
214				
	INBOUND HUB # N (6)	INBOUND LATA # N (100)		
	OUTBOUND HUB I	OUTBOUND LATA I		<del></del> -
216		220		
	<del></del>		LATA CODE	
	OUTBOUND HUB # N (6)	OUTBOUND LATA # N (100)	# N (100)	ROUTING CODE # N (999)

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**FIG. 6** PRIOR ART

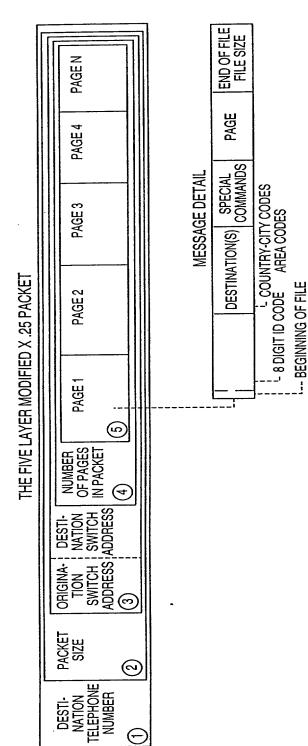
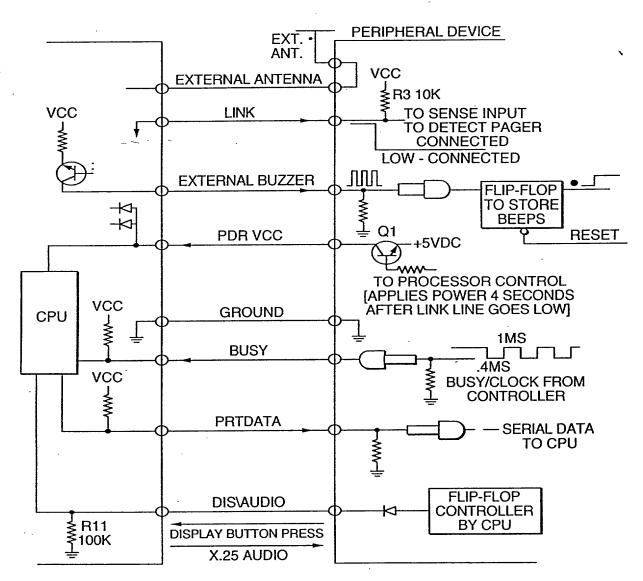
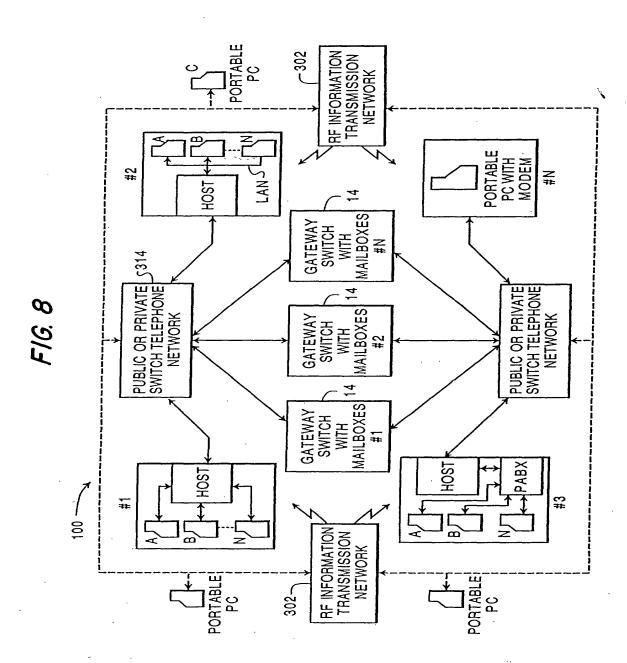


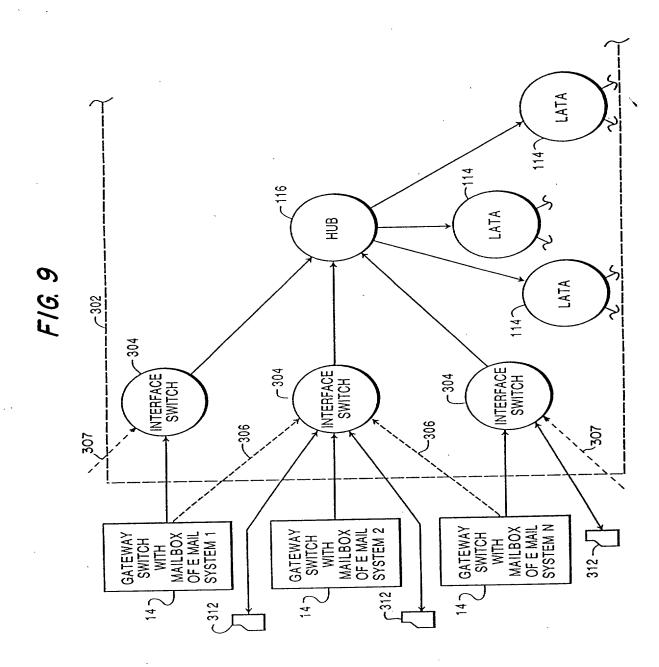
FIG. 7 PRIOR ART



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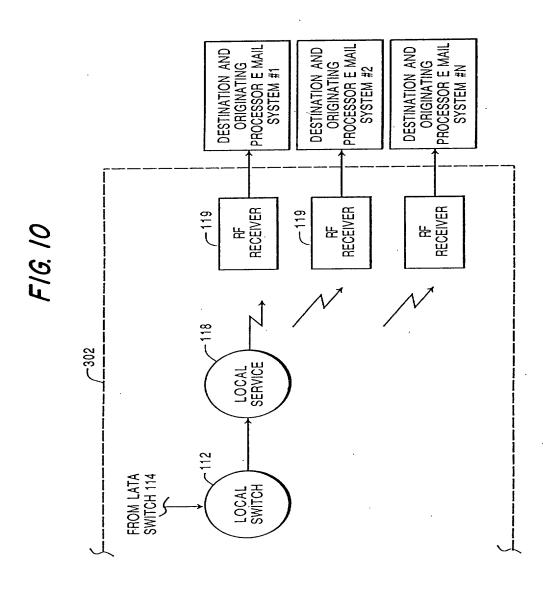
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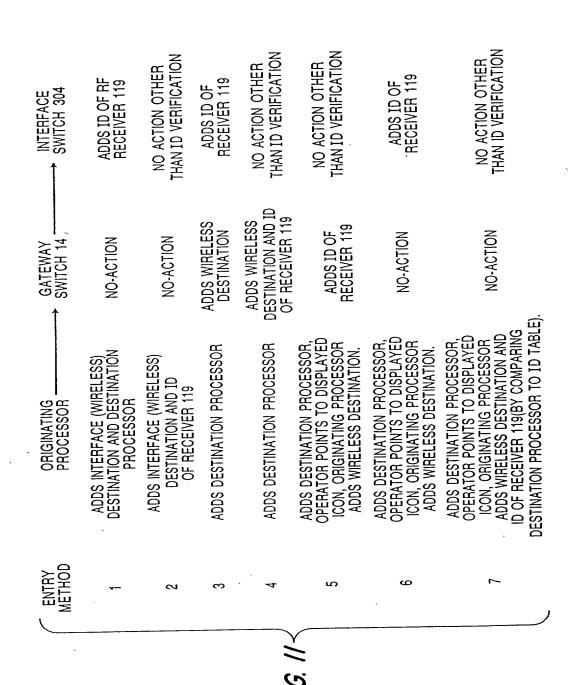




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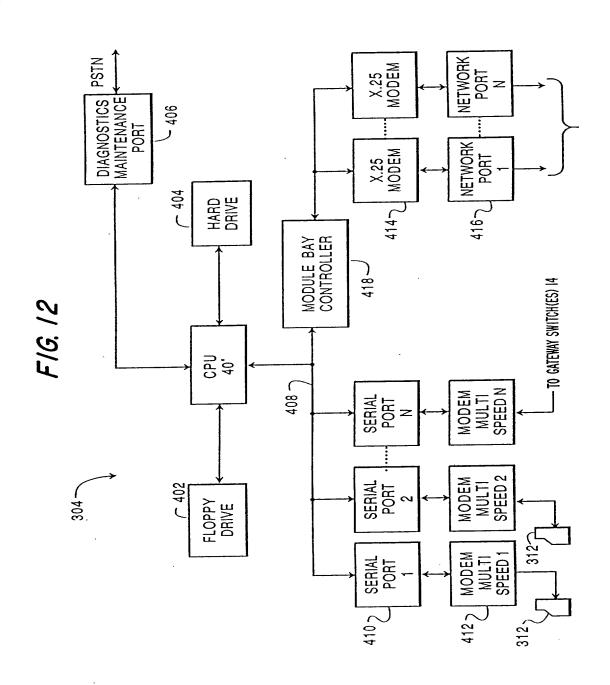




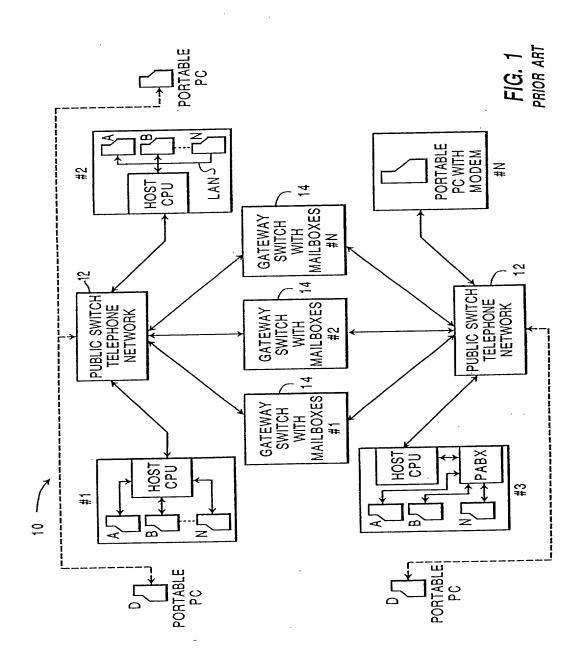


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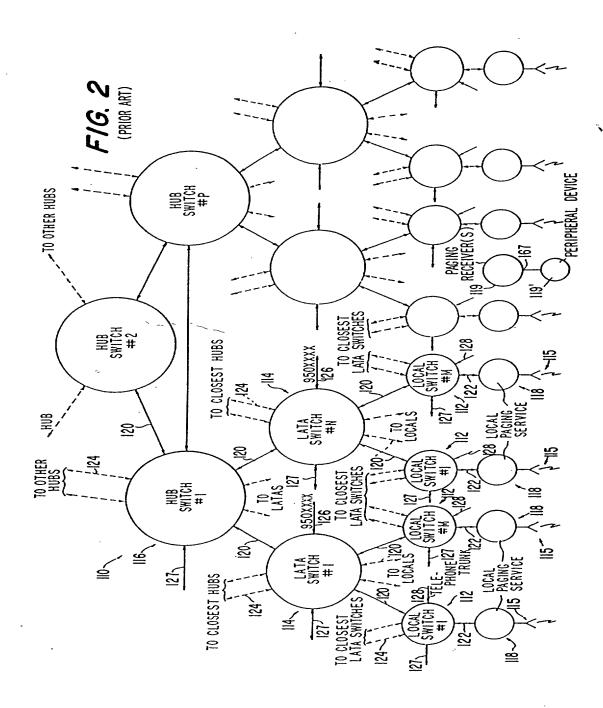


FIG. 3 (PRIOR ART)

	LOCA	AL SWITCH	MEMORY	MAP		`
ic a			156 /	158 _/	160 ∫	
154	SUBSCRIBER Files N (9999)	FREQUEN FILES N	CY (1,000)	LATA BUFFERS	LOCAL BUFFERS	
162 164 166	① FILE # I(0,000) ② TELEPHONE #		(1000) RE-	INBOUND	INBOUND Pages	J84 —
168	3 SUBSCRIBER AND PAGER ID CODE 4 SERVICE OPTIONS 6 NO SERVICE	QUENCIES IN REGIO RESPOND	N COR-	LATA BUFFER	0	
	D LOCAL C REGIONAL D NATIONAL	FILE #		180	2	
	BOVE WITH     REPEAT PAGING     DATA SERVICE		- - -		3	
170 172	① EXTERNAL DATA ① SUBSCRIBER NAME/ACCOUNT ⑥ ACCOUNT #		-	OUTBOUND LATA	5	186
174 176 178	① PAGE COUNT (L,R,N)  ⑧ # OF DATA CHARACTERS SENT  ⑨ DESTINATIONS AREA CODE(S)		- -	BUFFER	6	
		<u>-</u>	- - — —	182	7	
,	FILE # N (9,999)	FILE # N	(999)	-	9	5/
_						ID CODE BUFFERS

bestzr. nakuzkat

## F/G. 4

(PRIOR ART) LATA SWITCH **MEMORY** MAP 192 194 196 190 LOCAL BUFFERS LATA MEMORY 188 HUB OPTIONAL **OPTIONAL** ID **BUFFERS** INBOUND ALL OUTBOUND **PAGES** PAGER ID CODES OF LOCAL#1 **PAGES** 202 198 -ALL CALL ALL CALL OUTBOUND PAGES **BUFFER BUFFER** LOCAL # 1 **PAGES PAGES** FROM FROM LOCAL HUB **SWITCH SWITCHES** INBOUND 204 **PAGES** 200 -ALL PAGER ID CODES OF LOCAL # N (26)OUTBOUND LOCAL # N (25)

## FIG. 5 (PRIOR ART)

		HUB SWITCH	MEMORY MAP	
	206	208	210	212
٠	HUB BUFFERS	LATA BUFFERS	LATA CODE TABLES N (100)	HUB ROUTING CODES N (1000)
	INBOUND HUB # 1	INBOUND LATA # I	LATA	ROUTING CODE 1,2,3,4,5,6 (312)
•		218	CODE 222 # 1	
	<del></del>			
014				<del></del>
214				
	INBOUND	INBOUND		
	HUB # N (6)	LATA # N (100)		
	OUTBOUND HUB I	OUTBOUND LATA I		
		<del> </del>		
		<del></del>		
	<del></del>			
		220 ——		
216				
			LATA	
			CODE	
	OUTBOUND HUB#N (6)	OUTBOUND LATA -# N (100)	# N (100)	ROUTING CODE M (999)

**FIG. 6** PRIOR ART

PAGEN PAGE 4 PAGE 3 THE FIVE LAYER MODIFIED X .25 PACKET PAGE 2 PAGE 1 NUMBER OF PAGES IN PACKET ORIGINA-PACKET SIZE (2)

MESSAGE DETAIL

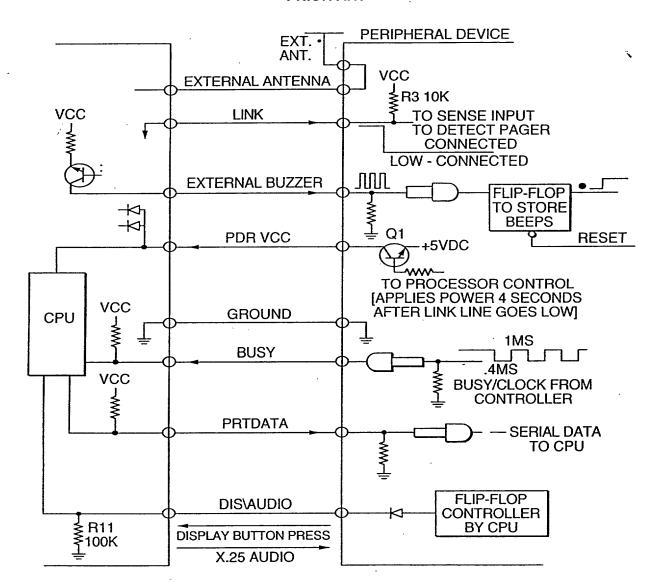
DESTINATION(S) | SPECIAL | PAGE | COUNTRY-CITY CODES | CODE | AREA CODES | CODE | CO

END OF FILE FILE SIZE

--- BEGINNING OF FILE

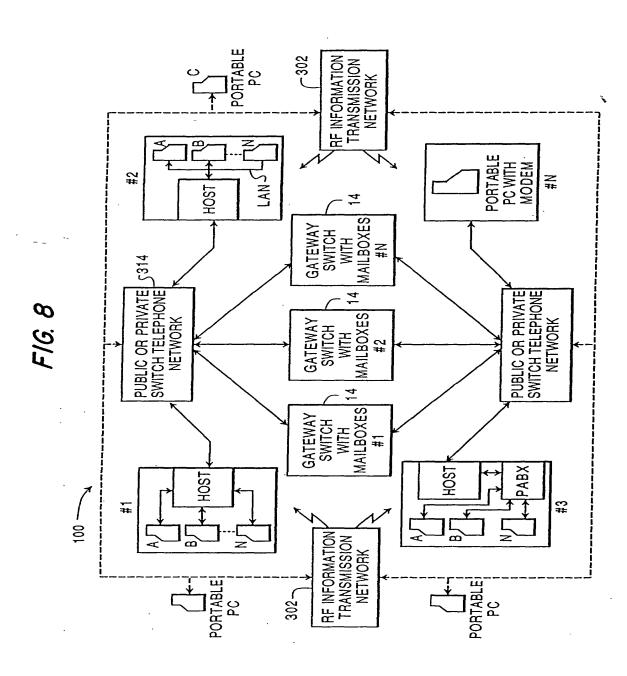
TOUSSELL STUSSES

FIG. 7
PRIOR ART

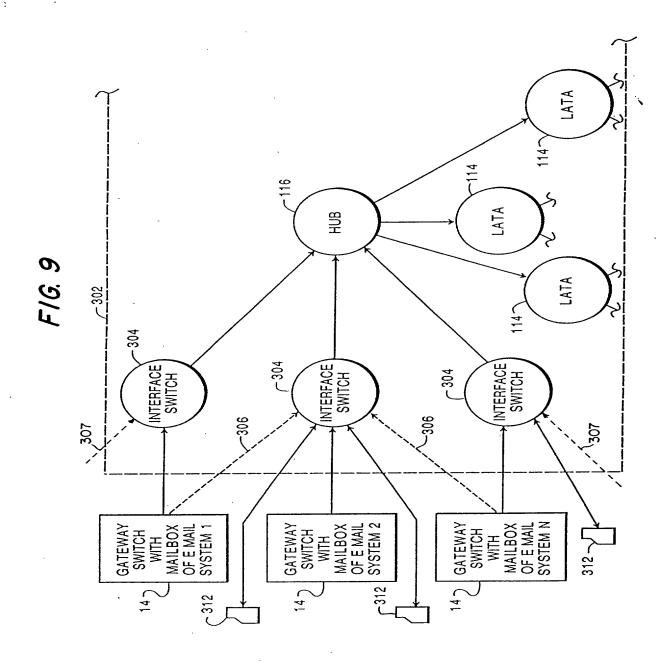


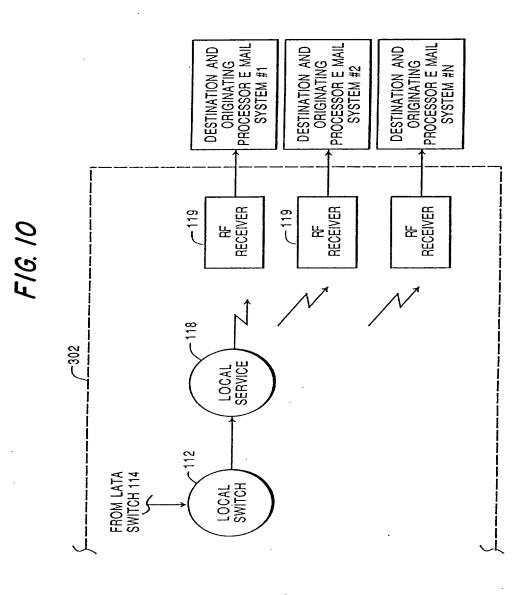
7:1 21 21 &

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INTERFACE SWITCH 304	ADDS ID OF RF RECEIVER 119	NO ACTION OTHER THAN ID VERIFICATION	ADDS ID OF RECEIVER 119	NO ACTION OTHER THAN ID VERIFICATION	NO ACTION OTHER THAN ID VERIFICATION	ADDS ID OF RECEIVER 119	NO ACTION OTHER THAN ID VERIFICATION
GATEWAY SWITCH 14	NO-ACTION	NO-ACTION	ADDS WIRELESS DESTINATION	ADDS WIRELESS DESTINATION AND ID OF RECEIVER 119	ADDS ID OF RECEIVER 119	NO-ACTION	NO-ACTION
ORIGINATING PROCESSOR	ADDS INTERFACE (WIRELESS) DESTINATION AND DESTINATION PROCESSOR	ADDS INTERFACE (WIRELESS) DESTINATION AND ID OF RECEIVER 119	ADDS DESTINATION PROCESSOR	ADDS DESTINATION PROCESSOR	ADDS DESTINATION PROCESSOR, OPERATOR POINTS TO DISPLAYED ICON, ORIGINATING PROCESSOR ADDS WIRELESS DESTINATION.	ADDS DESTINATION PROCESSOR, OPERATOR POINTS TO DISPLAYED ICON, ORIGINATING PROCESSOR ADDS WIRELESS DESTINATION.	ADDS DESTINATION PROCESSOR, OPERATOR POINTS TO DISPLAYED ICON, ORIGINATING PROCESSOR ADDS WIRELESS DESTINATION AND ID OF RECEIVER 119(BY COMPARING DESTINATION PROCESSOR TO ID TABLE)
ENTRY METHOD	<del>-</del>	8	ო	4	ω.	φ	

PSTN NETWORK X.25 MODEM PORT DIAGNOSTICS MAINTENANCE \* 406 NETWORK PORT X.25 MODEM 404 HARD DRIVE 4167 MODULE BAY CONTROLLER 418 -TO GATEWAY SWITCH(ES) 14 F1G. 12 CPU 408 MODEM MULTI SPEED N SERIAL PORT SPEED 2 MODEM MULTI 7 402 SERIAL PORT FLOPPY DRIVE 3127 MODEM MULTI SPEED 1 SERIAL PORT 312,